

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

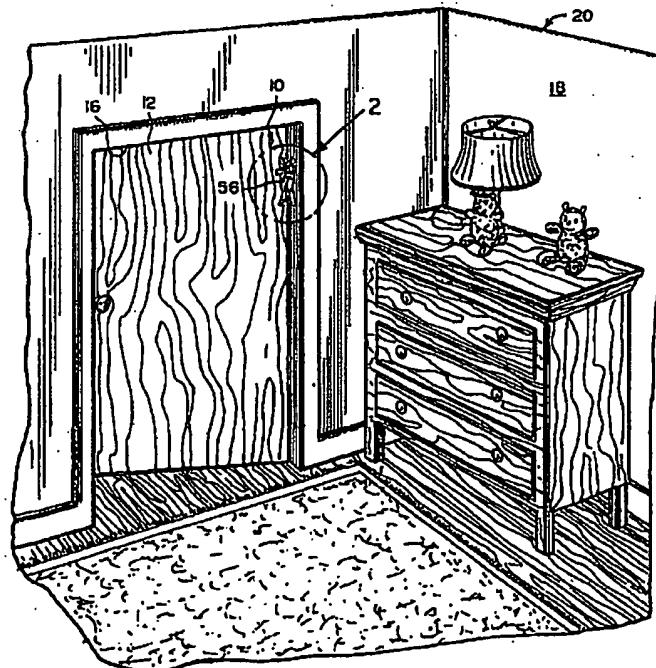
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : E05F 5/02	A1	(11) International Publication Number: WO 00/47856 (43) International Publication Date: 17 August 2000 (17.08.00)
(21) International Application Number: PCT/US99/02977		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 11 February 1999 (11.02.99)		
(71)(72) Applicants and Inventors: MUNGO, Alma, L. [US/US]; 1119 East 88th Street, Brooklyn, NY 11236-4761 (US). MUNGO, W., T. [US/US]; 1119 East 88th Street, Brooklyn, NY 11236-4761 (US).		
(74) Agent: KROLL, Michael, I.; 171 Stillwell Lane, Syosset, NY 11791 (US).		
		Published <i>With international search report.</i>

(54) Title: HOLDING DEVICE FOR A DOOR

(57) Abstract

A holding device (10) for a door (12) on hinges (14) in a doorway (16) of a room (18) in a building (20) comprising a plate (22). A facility (24) is for mounting the plate (22) over one of the hinges (14) of the door (12). The door (12) will be kept ajar, to allow pets, small children and crawling babies to enter and exit through the doorway (16) in a safe manner. The holding device (10) will also keep a basement door ajar to allow cats freedom to use their litter boxes when needed.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LJ	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

HOLDING DEVICE FOR A DOOR

DescriptionTechnical Field

The instant invention relates generally to doorstops and more specifically it relates to a holding device for a door. The holding device is placed over a door hinge to keep the door opened slightly, to allow pets, small children and crawling babies to enter and exit through the doorway without any problems. Also the door will be ajar slightly to allow fresh air in if desired or for any other reason. The holding device does not make the door stationary. The door is able to be pushed back and forth, but not able to close completely without removing the device first.

Disclosure of the Invention

A primary object of the present invention is to provide a holding device for a door that is placed over a door hinge to keep the door ajar in a slightly opened position, so as to allow pets, small children and crawling babies to enter and exit the doorway in a safe manner.

An additional object is to provide a holding device for a door that has an optional decorative ornament attached to cloth covered pasteboard material thereto that will blend in with any occasion or carpet color, so as to enhance the appearance of the room within a building. The holding device that is made out of flexible plastic, polyethylene or similar material would not need to be covered with any other material or enhanced with a decorative ornament. To add these would be optional, because the color and molding of the device made from any of these materials would be attractive enough without the optional add on decorative ornament.

A further object is to provide a holding device for a door that is simple and easy to use.

A still further object is to provide a holding device for a door that is economical in cost to manufacture.

Further objects of the invention will appear as the description proceeds.

Brief Description of the Drawing Figures

Various other objects, features and attendant advantages of the present invention will become more fully appreciated as the same becomes better understood when considered in conjunction with the accompanying drawings, in which like reference characters designate the same or similar parts throughout the several views.

FIGURE 1 is a perspective view of a portion of a room in a building, showing a first embodiment of the instant invention installed on a hinge of a right handed door.

FIGURE 2 is an enlarged exploded perspective view of the first embodiment per se as indicated by arrow 2 in Figure 1.

FIGURE 3 is a further enlarged perspective view of the first embodiment with the decorative ornament removed.

FIGURE 4 is a perspective view of a second embodiment of the instant invention that can be installed on a hinge of a left handed door.

FIGURE 5 is a still further enlarged perspective view of the first embodiment taken in the direction of arrow 5 in Figure 3, with parts broken away and in phantom, showing how the first embodiment is installed on the hinge.

The reference numbers utilized in the drawing figures are defined as follows.

10 holding device

12 door

14 hinge of 12

16 doorway in 18

18 room of 20

20 building

22 plate of 10

24 mounting facility of 10

26 slightly flexible flat rectangular member for 22

27 rounded corner of 22

28 plastic material for 22

30 polyethylene material for 22

32 pasteboard material for 22

34 non-bulky colorful cloth-like material on 22

36 longitudinal slot in 22 for 24

38 one end of 22

40 leaf of 14

42 barrel of 14

44 wide segment of 22

46 narrow segment of 22

48 strap on 22

50 first end of 48

52 snap fastener between 54 and 22

54 second end of 48

56 optional decorative ornament of 10

58 attaching structure of 10

60 hook fabric fastener tab of 58

62 loop fabric fastener tab of 58

Detailed Description of the Preferred Embodiment

Turning now descriptively to the drawings, in which similar reference characters denote similar elements throughout the several views, Figures 1 through 5 illustrate a holding device 10 for a door 12 on hinges 14 in a doorway 16 of a room 18 in a building 20 comprising a plate 22. A facility 24 is for mounting the plate 22 over one of the hinges 14 of the door 12. The door 12 will be kept ajar, to allow pets, small children and crawling babies to enter and exit through the doorway 16 in a safe manner.

The plate 22 is a slightly flexible flat rectangular member 26. Plate 22 includes four rounded corners 27 to prevent anyone, especially small children from getting hurt. The plate 22 can be fabricated out of a colorful plastic material 28, out of a colorful polyethylene material 30 or similar material or out of a pasteboard material 32. Also, the plate 22 can be covered with an optional non-bulky colorful cloth-like material 34, as shown in phantom in Figure 5. If the right material is used and molded correctly, then only the device 10 made of pasteboard material 32 would have to be covered with the non-bulky colorful cloth-like material 34. The ones made out of plastic material 28 or polyethylene material 30 should be made of different color choices.

The mounting facility 24 is a longitudinal slot 36 extending inwardly from one end 38 of the plate 22. The plate 22 can slip over the door hinge 14 between one leaf 40 and the barrels 42 of the door hinge 14, as best seen in Figure 5. The longitudinal slot 36 is offset to one side thereof, so as to separate the plate 22 into a wide segment 44 and a narrow segment 46. The wide segment 44 will bear against the side of the doorway 16, to keep the door 12 ajar.

A strap 48 is affixed at a first end 50 to the plate 22. The strap 48 will extend across the longitudinal slot 36 adjacent the one end 38 of the plate 22. A snap fastener 52 or similar fastener is between a second end 54 of the strap 48 and the plate 22. The strap 48 will be retained beneath the leaf 40 of the door hinge 14, to prevent children from easily removing the plate 22, if placed on a lower hinge 14. If the plate 22 is made of colorful plastic material 28, colorful polyethylene material 30 or similar material, the strap 48 should then be welded or mated onto the material and fastened with the appropriate fastener.

The holding device 10 can further contain an optional decorative ornament 56, as shown in Figures 1 and 2. A structure 58 is for attaching the optional decorative ornament 56 to the plate 22, so as to enhance the appearance thereof. The optional decorative ornament 56 would be better attached to the edge thickness or centered at the top on the narrow segment 46 for doors 12 opened with a left hand in pulling the door 12 inside the room 18. When opened from a hall within an apartment or house with a right hand, the optional decorative ornament 56 could be placed on the narrow segment 46.

The removable attaching structure 58 is a pair of hook and loop fabric fastener tabs 60, 62. One tab 60 is affixed to the plate 22, while the other tab 62 is affixed to the optional decorative ornament 56. The tabs 60, 62 are pressed and mated together. The optional decorative ornament 56 will be attached to the plate 22. The optional decorative ornament 56 can also be permanently sewn onto the plate 22.

Typical sizes of the holding device 10, include but are not limited to the following.

- A) Length of plate 12 is six inches.
- B) Width of plate 12 is two and a quarter inches.
- C) Thickness of plate 12 is between one eighth to one quarter of an inch.
- D) Length of longitudinal slot is four and one half inches.
- E) Width of longitudinal slot is one eighth of an inch.
- F) Width of wide segment 44 is one and three eights inches.
- G) Width of narrow segment 46 is three quarters of an inch.
- H) Length of strap 48 is two inches.
- I) Width of strap 48 is five eighths of an inch.

HOLDING DEVICE FOR A DOORClaims

1. A holding device for a door on hinges in a doorway of a room in a building comprising:
 - a) a plate; and
 - b) means for mounting said plate over one of the hinges of the door, so that the door will be kept ajar, wherein said mounting means is a longitudinal slot extending inwardly from one end of said plate, so that said plate can slip over the door hinge between one leaf and the barrels of the door hinge, said holding device further including:
 - i) a strap affixed at a first end to said plate, so that said strap will extend across said longitudinal slot adjacent the one end of said plate; and
 - ii) a snap fastener between a second end of said strap and said plate, so that said strap will be retained beneath the leaf of the door hinge, to prevent said plate from being accidentally removed, if placed on a lower hinge.

2. A holding device for a door as recited in Claim 1, wherein said plate is a slightly flexible flat rectangular member.
3. A holding device for a door as recited in Claim 1, wherein said plate is fabricated out of a colorful plastic material.
4. A holding device for a door as recited in Claim 1, wherein said plate is fabricated out of a colorful polyethylene material.
5. A holding device for a door as recited in Claim 1, wherein said plate is fabricated out of a pasteboard material.
6. A holding device for a door as recited in Claim 1, wherein said plate is covered with a non-bulky colorful cloth-like material, especially to cover a pasteboard material.
7. A holding device for a door as recited in Claim 1, wherein said longitudinal slot is offset to one side thereof, so as to separate said plate into a wide segment and a narrow segment, so that said wide segment will bear against the side of the doorway to keep the door ajar.

8. A holding device for a door as recited in Claim 1, further including:

- a) an optional decorative ornament; and
- b) means for attaching said optional decorative ornament to said plate, so as to enhance the appearance thereof.

9. A holding device for a door as recited in Claim 8, wherein said attaching means is a pair of hook and loop fabric fastener tabs, in which one said tab is affixed to said plate, while other said tab is affixed to said optional decorative ornament, so that when said tabs are pressed and mated together, said optional decorative ornament will be attached to said plate.

10. A holding device for a door as recited in Claim 1, wherein said plate includes four rounded corners to prevent anyone, especially small children from getting hurt.

11. A holding device for a door as recited in Claim 10, wherein said plate is fabricated out of a colorful plastic material.

12. A holding device for a door as recited in Claim 10, wherein said plate is fabricated out of a colorful polyethylene material.

13. A holding device for a door as recited in Claim 10, wherein said plate is fabricated out of a pasteboard material.

14. A holding device for a door as recited in Claim 10, wherein said plate is covered with a non-bulky colorful cloth-like material, especially to cover a pasteboard material.

15. A holding device for a door as recited in Claim 10, wherein said longitudinal slot is offset to one side thereof, so as to separate said plate into a wide segment and a narrow segment, so that said wide segment will bear against the side of the doorway to keep the door ajar.

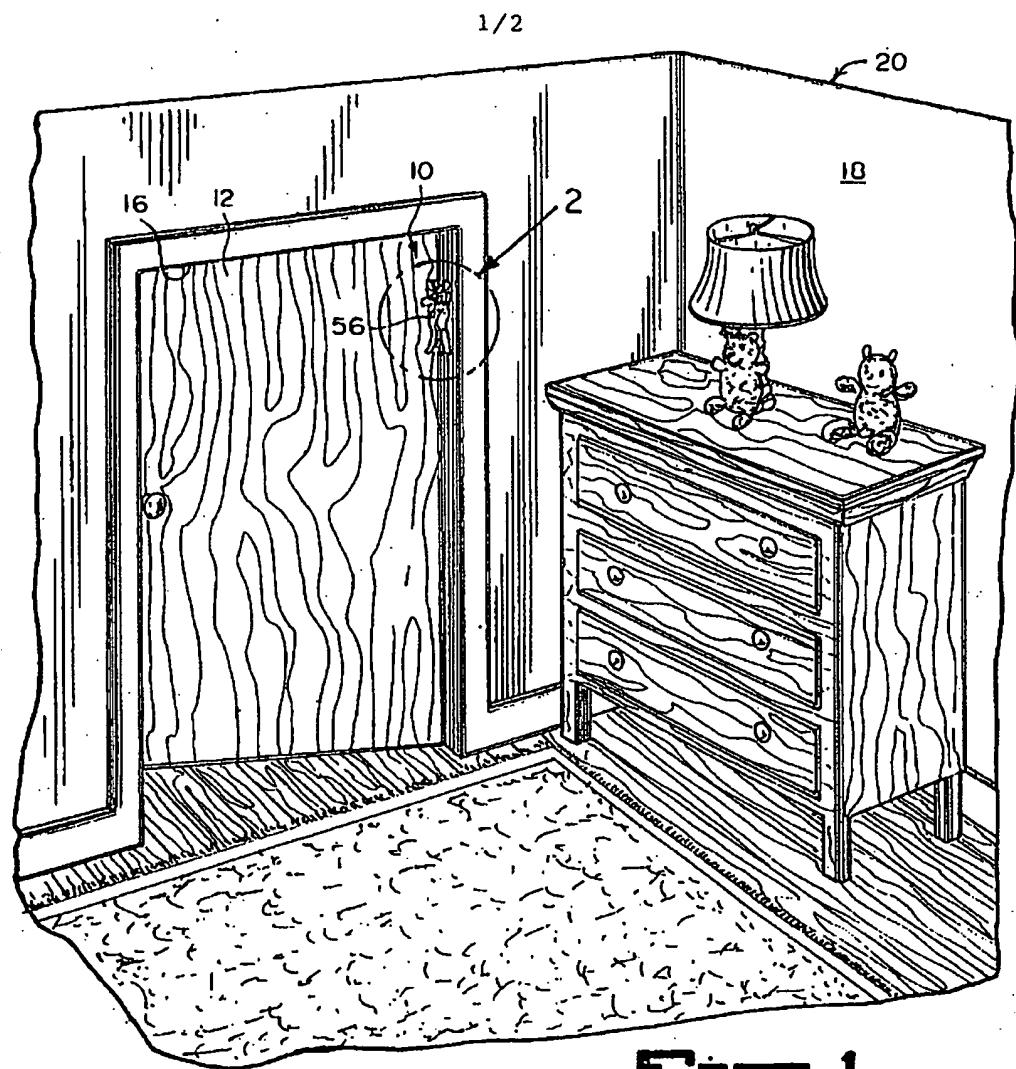


Fig. 1

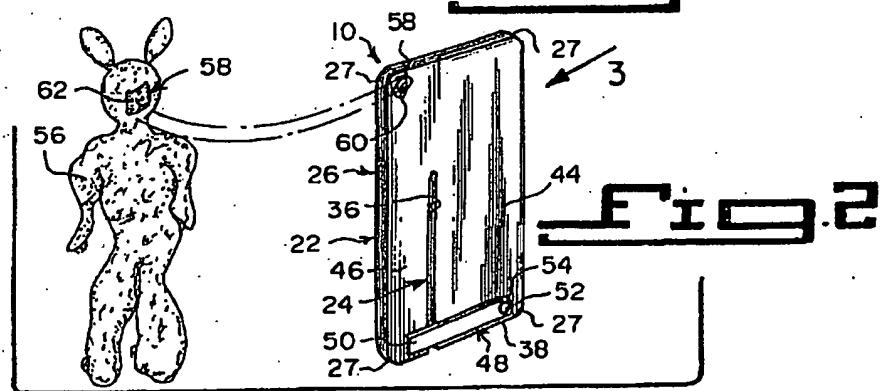
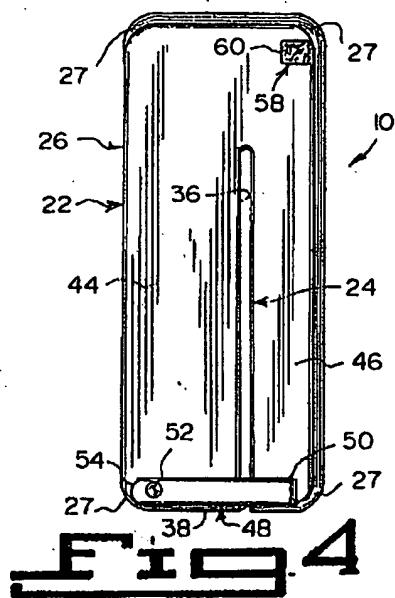
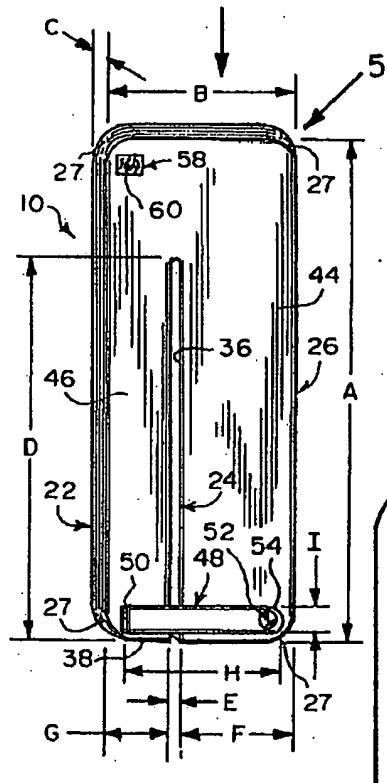
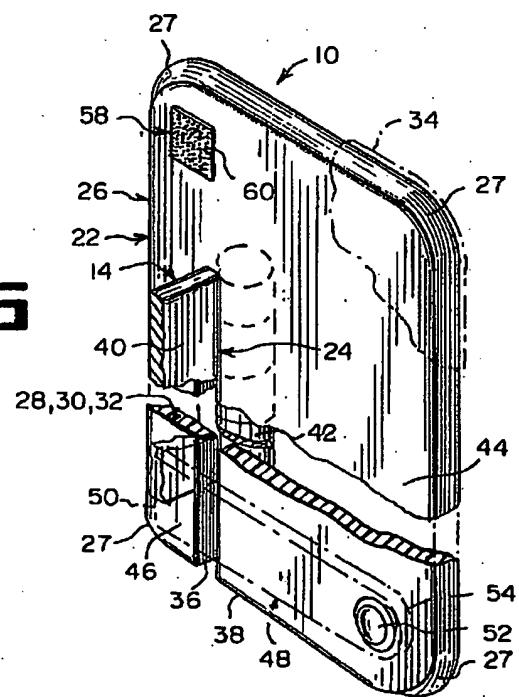


Fig. 2

2/2

Fig. 3**Fig. 4****Fig. 5**

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/02977

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) E05F 5/02

US CL : 16/82,319,374,375,349,86R; 292/288,289, DIG. 17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 16/82,319,374,375,349,86R; 292/288,289, DIG. 17

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 0,314,105 A (CARNES) 17 March 1885 (17.03.85)	NONE
A	US 3,786,533 A (O'DONNELL) 22 January 1974 (22.01.74)	
A	US 3,918,121 A (WILLIAMS) 11 November 1975 (11.11.75)	
A	US 5,027,471 A (BARNES) 02 July 1991 (02.07.91)	
A	US 5,098,142 A (FONTENOT) 26 November 1991 (26.11.91)	
A	US 5,288,257 A (ZACHERL) 22 February 1994 (22.02.94)	

 Further documents are listed in the continuation of Box C.

See patent family annex.

•	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"B"	earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Z"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

10 APRIL 1999

Date of mailing of the international search report

14 MAY 1999

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3250

Authorized officer

CHUCK MAH

Telephone No. (703) 308-0676

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US99/02977

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,450,652 A (WEBB) 19 September 1995 (19.09.95)	
A	US 5,511,837 A (DEMPSEY ET AL) 30 April 1996 (30.04.96)	

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record.**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER: _____**

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.